9 (2, 3)

CZECH/14-59-12-5/41

AUTHOR:

Klen, Bohdan

TITLE:

The Tube RES XL and Applied Czechoslovak Patents

PERIODICAL: Sdelovaci technika, 1959, Nr 12, pp 448-449

ABSTRACT:

In this article the author gives a short description of the new short-wave tube Tesla RES XL and its variant RES XN and mentions the patents applied for. This tube is to be used for transmitters working in the third TV band. The RES XL tube was developed in the Vrsovice Enterprise of Tesla-Roznov by the collective of Mares, decorated with the Order of Labor. and applied in cooperation with P. Hix, awarded the State prize. The tube is a tetrode with an idle capacity of 5kw, a self-carrying cathode and cage-shaped self-carrying grid. A schematic presentation of the tube is in Fig 1. Special attention was given to the cathode. The directly heated cathode of the tube is composed of 16 leads of thoriumized wolfram forming a cage-shaped cylindrical construction. According to

Card 1/2

CZECH/14-59-12-5/41

The Tube RES XL and Applied Czechoslovak Patents

patent Nr 90.158, each lead of the cathode is weakened on both ends so that its resistance is not equal everywhere. The other patents applied in the described tube are the following: Nr 88.940, 30,472, 92.091, 90.472, 89.318, 89.280 and 91.378. In his conclusion, the author stresses the importance of the vacuum technique for the task of catching up with the most industrially developed countries. The results achieved in this field are a proof of the ability of Czechoslovak technical personnel. There is 1 diagram and 1 photograph.

Card 2/2

5/196/62/000/011/004/009 E194/E155

AUTHORS: Klen, Bohdan, and Turinek, Stanislav

TITLE: A method of making a gas-dielectric capacitor

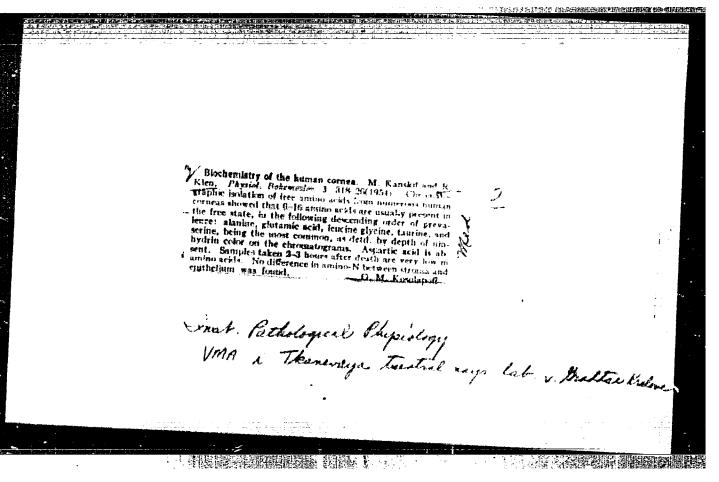
PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.11, 1962, 7, abstract 11 B53. (Czechoslovak Patent, 21 g, 10/01, no.98787, 15 March 1961).

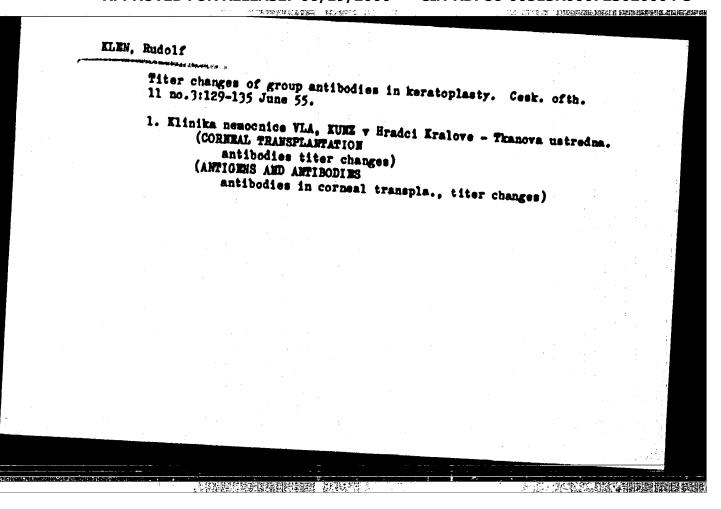
Text: The invention relates to high-frequency gas-filled capacitors. The general construction of the capacitor and details of the fixing rods which carry the system of low-voltage plates are patented. The ends of the rods are threaded and screwed into directly into this projection; a second nut which maintains the system of rods in tension has a projecting head which surrounds the first nut. Longitudinal cuts are made in the head of the diagram of the capacitor is given, also a detailed sketch of the

[Abstractor's note: Complete translation.]

Tissue banks. Cesk. nemoc. 20 no.7-10:120-121 Sept-Dec 1952. (CLML 23:4)

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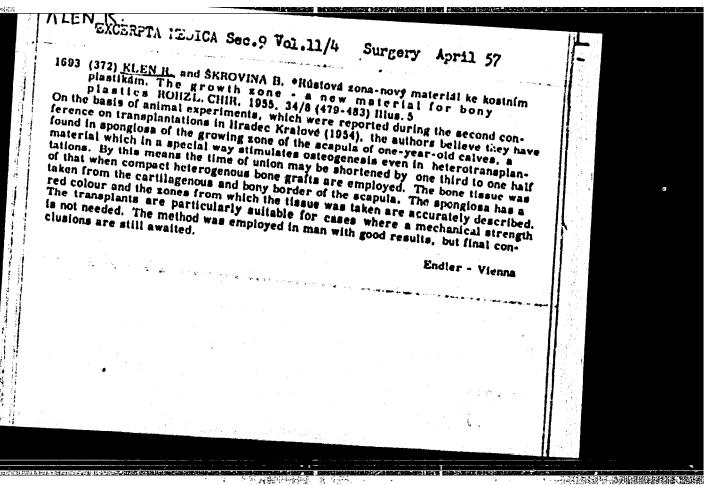


1864. KLEN R. Klin. nemocn. VLA J. Ev. Purkyne; Tkaňová banka, Hradec Králové. *Změny titrů protilátek systému ABO a Rh při keratoplastikách. (II. Hodnocení 50 případů). Changes in antibody titres of the ABO and Rh system. 11. Evaluation of 50 cases CSL.OFTHAL.

1955. 11/4-5 (246-249) Graphs 1 Tables 1

No anti-Rh bodies were found in 5 Rh-negative receivers onto whom a graft from Rh-positive persons was implanted. Changes of titres of antibodies of the ABO system occurred in 1/3 of operated patients when the donor had the same blood group of the ABO system; in about 1/2 of the cases, when the donor belonged to the O group; and in more than 2/3 of cases when the blood groups of both receiver and donor were incompatible.

Zahn - Brague (XII, 4)



Solution for preservation of bone and cartilage tissues. Roshl, chir. 34 no.8:483-487 Oct 55. 1. Transva ustredna a katedra orthopedic VLA (BONE TISSUE, transplantation, preserv. solution (GE)) (CARTILAGE, transplantation, preserv. solution (GE)) (TRANSPLANTATION, bone & cartilage, preserv. solution (GE))

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KLEN, Rudolf, MUDr.

Results and problems of the tissue bank of the Military Medical Academy of J. Bv. Purkyne. Cas. lek. cesk. 95 no.28-29:786-787

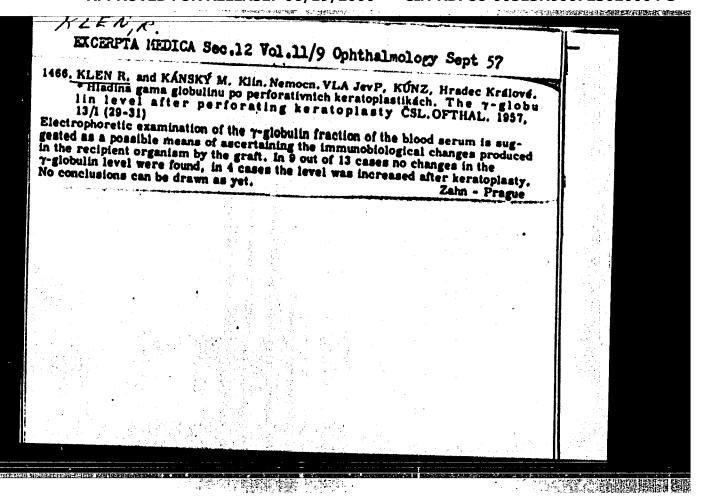
1. Klinika nemocnice Vojenske lekarske akademie J. Rv. P., KURZ Hradec Kralove, Tkanova Banka. (TRAMSPLANTATION, tissue banks in Csech. (Cs))

KIEH, R.

Contribution to the study of some mechanical properties of preserved vascular grafts.

p. 2977 (Ceskoslovenska Biologie) Vol. 6, no. 4, July 1957. Fraha, Czechoslovakia.

50: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 1, Jan. 1958



CZECTOCHOWINI./Maran and . miral P raiology. Blood. Blood Groups.

lbs Jour: Ref Zhur-Biol., 20, 1958, 93107.

Luthor

: Klon, Rudoll

List Title

: Possibility of Rhelatibody Formation with Tissue

Transplants to Rh(D)-Hegativ Individuals.

Orig Pub: Rezhl. chirug., 1957, 35, No 9, 616-619.

Abstinct: Twenty-three Rh-negative patients were studied for the presence of Mi-antibody after they had received transplants of comes and rib bone from the bank from Rho-positive denors and corneas from Rh(D)-negative donors and calf bones from the bank. Ri-mitibody was not detected after prolonged observation. --

A.I. Goronicus.

Card

: 1/1

Klinika nemocnice VLA JEVP, Thanova Banka KUNZ HRAder Kralove

ERYSPIN, JO KLEM, R.

Changes of ohm resistance of fish cornea in hypotonic environment. Cesk, fysiol. 7 no.3:250-251 May 58.

1. Iaborator plasticke chirurgie CSAV, Praha, a Tkanova banka VIA, Hradec Kralove.

(CORMIA, physical, ohm.resist. in fish in hypotonic environment (Cs))

corneal ohm resist. in hypotonic environment (Cs))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020004-3"

KLEN, R.

Certain aspects of tiesue conservation in low temperatures. Cesk, fysiol. 7 no.4:341 July 58.

1. Tkanova banka--Vojenska lekarska akademie, KUEE Hradec Kralove.
(TRANSPIANTATION,
of tissue grafts (Cs))
(REFRIGERATION,
of grafts (Cs))

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KRYSPIN, J.; KLEN, R.

TO THE PARTY OF THE PROPERTY OF THE PARTY OF

Blectrophysiological study of corneal hydration. I. Heasurement in fresh water fish. Cesk. fysiol. 14 no.4:233-239 Aug 58.

1. Elektrofysiologicka laborator neurochirurgicke kliniky a tkanova banka VIA J. Ev. P. v Hradci Kralove. J. K. CSAV, Praha 2, Legerova 61.

(CORMA, physiol.

hydration in fresh water fish, electrophysiol. (Cm))
(MATER, metab.

corneal hydration in fresh water fish, electrophysiol. (Cm))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020004-3"

1、1980年的《中海中國新聞報報報報》(1975年)。

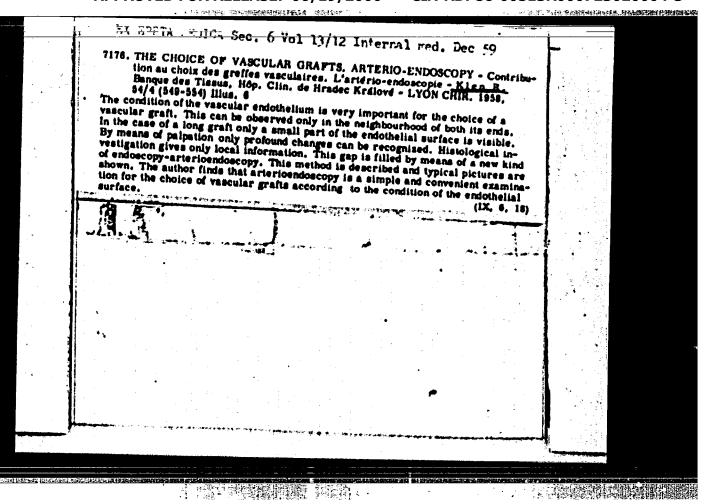
Surface changes in bone and cartilage transplants caused by cold.
Ortop.travm. i protes 19 no.2:38-40 Mr-Ap '58 (MIRA 11:5)

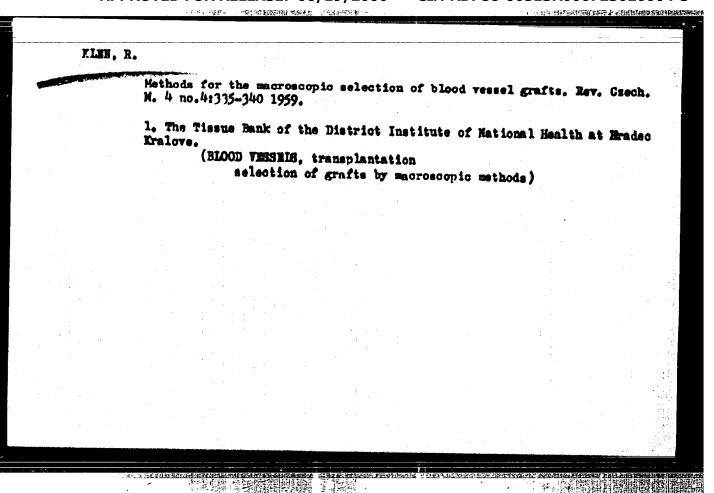
1. Is klinicheskoy bol'nitsy Voyenno-meditsinskoy akademii im. Ya.Ye Purkin'ye i Tkanevogo banka Oblastnogo instituta sdravookhraneniya (Gradets Kralove, Chekhoslovakiya). (BOMB AND BOMES, transpl. surface changes caused by cold. (Rus))

surface changes caused by cold. (Rus)) (CARTILAGE, transpl. same) (COLD, eff.

surface changes in bone & cartilage transpl.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020004-3





KLEN, Rudolf

Experiences in collection and preservation of the aqueous humor. Cesk. ofth. 15 no.2:102-104 Apr 59.

1. KUME - Tkanova ustredna, Hradec Kralove. (AQUMOUS HUMOR, collection & preserv. (Cs))

中,经时间的一个保险基础轻相与危险器。《大身代码》。

FIALA, O.; HEROUT, V.; KLEN, R.

Behaviour and fate of conserved homogenous articular cartilage under experimental conditions. Acta chir. plast. 3 no.2:154-158 '61,

1. Orthopaedie Clinie, Director: Prof. J. Vavrda, M.D., Institute of Pathology, Director: Prof. A. Fingerland M.D., Dr. Se., Tissue Bank, Director: R. Klen, M.D., Hradec Kralove (Gsechoslovakia)

(CARTILAGE transplantation)

KLEN, R.; SYKORA, I.

Is the relative vitality of frozen and thaved tissue of diagnostic significance? Folia biol. 7 no.5:373-376 161.

1. Regional Institute of National Health, Tissue Bank, Hradec Kralov, Institute of Pharmacy and Biochemistry, Prague, Rosice Branch, Rosice and Leben.
(CYTODIAGNOSIS) (REFRIGERATION)

FIALA, Oldrich; HEROUT, Vladimir; KLEN, Rudolf.

Repair of joint defects with homogenous cartilages in experimental conditions. Acta chir. orthop. trauma. Cech. 28 no.6:463-468 D '61.

1. Ortopedicka klinika lekarske fakulty University Karlovy v Hradci Kralove, prednosta prof. MUDr. Jaroslav Vavrda Ustav pathologicke anatomie v Hradci Kralove, prednosta prof. MUDr. Antonin Fingerland, Dr. Sc. Tkanova ustredna fakultni nemocnice v Hradci Kralove, prednosta MUDr. Rudolf Klen. (JOINTS surg) (CARTILAGE transpl)

KLEN, Rudolf, doktor; KRISHPIN, Yan [Kryspin, Jan], doktor; SHIYEROVA, Aleksandra [Schierova, Alexandra], doktor fil. [translator]

[Preparation and preservation of tissues] Zagotovka i konservirovanie tkanei. Prague. Gos.izd-vo med. lit-ry, 1962. 316 p. Translated from the Czech. (MIRA 16:12) (TISSUES-PRESERVATION)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020004-3"

CZECHOSLOVAKIA

FIAIA, O., MD; HEROUT, V., MD; KLEN, R., MD.

Anatomy and Tissue Center (Ortopedicka klinika, Ustav patologicke anatomie a tkanova ustredna), Hradec Kralove (for all)

Prague, Prakticky lekar, no 19, 1963, p 78 753

"Transplant of a Joint Surface in Experiment."

KLEN, R.

Use of chemically dried fascia in reconstructive surgery. Rosh. chir. 42 no.9:605-610 S 163.

1. Tkanova ustredna fakultni nemocnice KUNZ v Hradci Kralove.
(FASCIA) (SURGERY, PLASTIC) (TRANSPLANTATION)
(SILICA) (CELS) (TISSUE BANKS) (PHOSPHORUS)

KJEN, R., MUDr.

Methods and organizational problems in supplying tissue banks. Cesk. mirav. 12 no.1226-29 Ja'64.

1. Tkanova ustredna fakultni nemocnice KUNZ v Hradsi Kralove.

1000mmm (1925年間接頭で)[基礎數] 1097年1878年

KLEN, Rudolf, MUDr.

Some remarks on the clinical aspects of transplantation. Sborn. ved. prac. lek. fak. Karlov. Univ. (Hrad. Kral.) 6 no.3: Supplement:297-304 163

1. Prednosta Tkanove ustredny fakultni nemocnice KUNZ, Hradec Kralove.

"APPROVED FOR RELEASE: 06/19/2000

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Aleman Kennan Problems of the trassectant for clipton transposition. Acta thir. orthop. traum. each. 31 no. 5:398-402 0 184. 1. Tkanova ustradna fakultni nameenise y Aradei Essieve.

KLEN, Rudolif

Problems of tissues preparation and preservation. Ortop., travm. i protez. no.9:16-23 '62. (MIFA 17:11)

1. Iz tkanekhranilishche Oblastnogo lechetno-profilakticheskogo ob"yedineniya, Gradets Kralove, Chekhoslovakiya.

KLEN, R.; YIRASEK, Yu. [Jirasek, J.]

Fate of homogenous cartilaginous graf s with a partial loss of protein-polysaccharide complexes of and matrix. Ortop., travm. i protes. 25 no.4:14-17 Ap '64 (MIRA 18:1)

1. Is Tkanekhranilishcha oblastnogo meditsinskogo ob yedineniya (Gradets Kralove) i Instituta materi i rebenka (Praga). Adres Klena: Oradets Kralove, Chekhoslovakiya, Tkanekhranilishche klinicheskoy bol'nitsy meditsinskogo fakul'teta Karlova uni-

KLEN, R.

The tasks of the tissue bank in clinical transplantations. Acta chir. plast. (Praha) 7 no.3:221-227 165.

1. Tissue Bank, University Hospital, Hradec Kralove (Czechoslovakia).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020004-3"

KLEN, Rudolf . Technicks spoluprace: HUSEK, Z.; JEZEK, K.

Activities of the Collecting Center for human milk at the Tissue Bank of the Faculty Hospital, Regional Institute of National Health at Bradec Kralove. Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no.3:321-329 ' 65.

KIEN, Rudolf

Indications and contraindications of the removal of tissues for transplantations. Sborn. ved. prac. lek. fak. Karlov. univ.:Suppl. 8 no.5:563-568 '65.

1. Tissue Bank (Head Dr. R. Klen, CSc.).

L 13463-66 ACC NR. AP6006019 SOURCE CODE: CZ/0053/65/014/004/0280/0281 AUTHOR: Klen, R.; Hradil, P.; Sykora, I. ORG: Central Tissue Laboratory, Faculty Hospital, KUNZ, Bradec Kralove (KUNZ ... C Fakultni nemocnice - Tkanova ustredna); Research Institute of Pharmacology and Biochemistry, Rosice (Vyskumny ustav pro farmacii a biochemii) TITIE: Role of increased temperature in the growth of Crocker sarcoma [This paper was presented during Biophysical Days, Brno, 12 Jun 64.] SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 280-281 TOPIC TAGS: mouse, timor, temperature ABSTRACT: Environmental Comperature significantly affect the growth of transplanted Grocker murine sarcome 8-180 the optimal (slowest growth over 30 days) temperature being 36° C. . The effect of temperature is not decreased by previous adaptation of mice so as to increase the host tolerance. Orig. art. hast 1 figure. /JPRS7 SUB CODE: 06 / SUBM DATE: none 沙針 多數則亞 對於

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ACC NR; AP6006018

SOURCE CODE: CZ/0053/65/014/004/0280/0280

AUTHOR: Klen, R.: Fulka, J.

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ORG: Central Tissue Laboratory, Faculty Hospital, KUNZ, Hradec Kralove (MUNZ Fakultni nemocnice - Tkanova ustredna); Laboratory of Physiology and Genetics of Animals CSAZY, Libechov (CSAZV - laborator fysiologie a genetiky sivocichu)

TITLE: Application of pressure in the convervative of semen by freezing [This paper was presented during Biophysical Days, Brno, 12 Jun 64.]

SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 280

TOPIC TAGS: biologic reproduction, animal physiology

ABSTRACT: Study of bull spermatoron freezing aiming to utilize the role of changes in pressure to optimize the equilibrium ice: steam indicates that the best pressure in 1000 atmospheres at temperature of -65° C. ZJPRSZ

SUB CODE: 06 / SUBM DATE: none

cord 1/1 HW

KLEN, S.

Use of artificail air in drying kilns. p. 132. STAVIVO. (Ministertvo stavebnictvi) Praha. Vol. 34, no. 4, April 1956.

SOURCE:

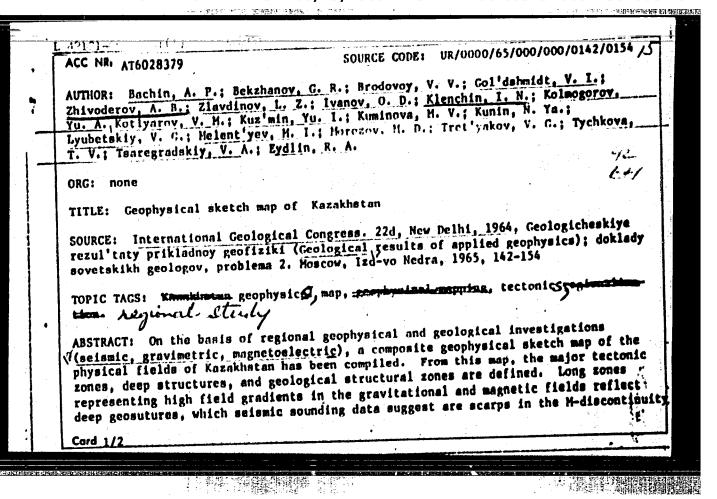
East European Accessions List, (ERAL), Library of Congress. Vol. 15, no. 12, December 1955.

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AUTHORS:

Yeremin, V. K., Klenchin, N. N., Udris, K. P. and

Stuchevskiy, N. I.

TITLE:

Geologic surveying and geophysical operating procedure

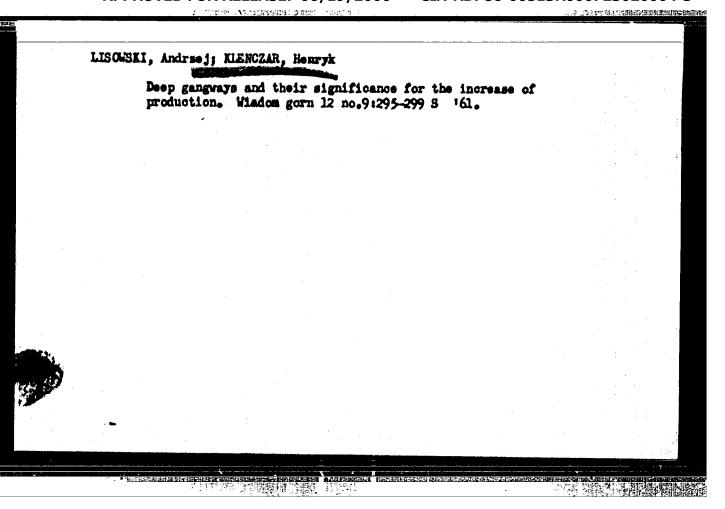
in conditions of enclosed regions

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 5, 1962, 23, abstract 5A179 (V sb. Geol., metodika i tekhn. razvedki, labor. raboty, (5), Alma-Ata, 1961, 19-28)

In conditions of enclosed regions geophysical research methods lead in the general complex of geologic operations and begin with regional investigations. Seismic, gravimetric, electric and magnetic prospecting, accompanied by drilling, are used in this stage. Complex areal investigations at a scale of 1;200,000 in sections, outlined by the regional survey, represent the next stage of depth mapping. The investigational complex includes: aeromagnetic and aeroelectric prospecting, gravimetric prospecting, electric prospecting by the B93 (VEZ) and A93 (DEZ) methods, geologic sur-

Card 1/2



LISOWSKI, Andrsej, dr., ins.; KI.E.CZAR, Henryk, mgr., ins.

Some informations on linear programming and an example of its application. Przegl gorn 18 no.2:128-137 '62.

LISOWSKI, Andrzej; KIENCZAR, Henryk

Indentation galleries for both individual and compressed walls. Wiadom gorn 12 no. 11:361-367 N '61.

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FOR US

LISOWSKI, Andreej, dr ins.; Kirkczar, Henryk, mgr ins.

Deep headings for single and stressed walls conducted with break down through the entire thickness of the layer.

Wisdom gorn 13 no.91294-300 S *62.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020004-3"

TOKHAKOVA, Irina Alekseyevna, kand. tekhn. nauk; KLENDO, M.A., insh., nauchnyy red.; YUDINA, L.A., red. 150-vk; MIKHEYEVA, A.A., tekhn. red.

[Using mortars and concretes with addition of potash in winter construction work] Primenenie rastvorov i betonov s dobavkoi potasha pri proisvodstve stroitel'nykh rabot v simnee vremia. Hoskva, Gosstroiisdat, 1963. 79 p.

(MIRA 16:7)

(Potash) (Concrete) (Mortar)

MALICHOVEKIY, Rudol'f [Malicovsky, Rudolf], inzh.; KHEVROLIN, Ya.I [translator]; KLENDO, M.A., inzh. nauchn. red.; GORDEYEV, P.A., red.

[Assembling structural elements of industrial buildings. Abridged translation from the Czech] Hontazh stroitelykh konstrukteii promyshlennykh sooruzhenii. Moskva,
Stroitzdat, 1964. 86 p. (MIRA 17:6)

ZHUCHIN, D.I.; KONSTANTINOV, S.V.; FROZOROVSKIY, G.N.; SCINT EV, S.G.; KHARKHARDIN, L.S.; KLENDO, M.A., 11zh., nauchn. red.; PEREVALYUK, M.V., red.

[Rural construction in the Virgin Territory] Sel'skoe stroitel'stvo v TSelinnom krae. Moskva, Stroitzdat, 1964. 89 p. (MIKA 1719)

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BEL'SKIY, Viktor Isenovich; CHERNOV, Alsksandr Vasil'yevich;
KLENDO, M.A., ingh., nauchn. red.

[Brickwork and assembly of industrial furnaces and smokestacks] Kladka i montash promyshlennykh pechei i zavodakikh trub. Moskva, Stroiizdat, 1964. 234 p. (MIRA 1716)

LOMAKIN, Vaniliy Andreyevich, inzh.; MARKOV, Dmitriy Aleksandrovich, inzh.; KLENDO, M.A., inzh., nauchn, red.[deceased]

[Technology and organization of construction work] Tekhnologia i organizatsiia stroitel'nogo proizvodstva. Moskva, Stroitzdat, 1964. 366 p. (MIRA 18:1)

. KLENENKOV, M.V., polkovnik meditsinskoy slushby

One hundred and fiftieth anniversary of the Kasan Military Hospital.

Voen.-med.shur. no.12:83 '59. (MIRA 14:1)

(KAZAN-HOSPITALS, MILITARY)

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STARIK, I.Ye.; ARSLANOV, Kh.A.; KLENER, I.R.

Improved techniques for the chemical preparation of samples for radiocarbon dating by the scintillation method. Radiokhimia 5 no.2:198-205 '63. (MIRA 16:10)

KLENER, P.; JANOTA, M.; STEJSKAL, J.

Renal damage in pyrabutol treatment. Cas. lek. cenk. 104 no.24: 650-653 18 Je 165.

1. II. 'nterni klinika fakulty vseobecneho lekarstvi Karlovy University v Prase (prednosta: prof. dr. F. Herles, DrSc.) a I. Patologickoanatomicky ustav fakulty vseobecneho lekarstvi Karlovy University v Prase (prednosta: prof. dr. B. Bednar, DrSc.).

Athesive properties of blood platelets after fat test meal. Shorn.
lek.63 no.1:18-24 Ja 161.

1. II. interni klinita fakulty vseobecneho lekarstvi University
Karlovy v Prase, prednosta prof.dr. F.Herles.
(BLOOD PLAYMENTS)
(ARTRIOSCHEROSIS blood)
(FATS)

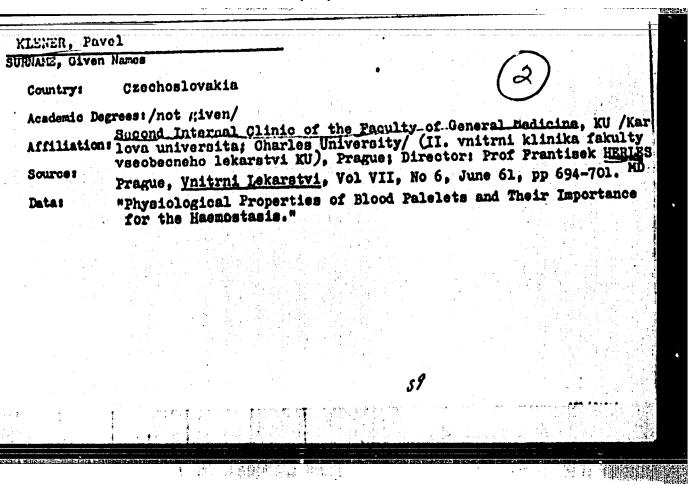
KLEHER, P.

Therepeutic agents in hemoblastosis. Cas. lek. cesk. 103 no.20:81-85 15 My 164

1. II. intermi klinika fakulty vseobecneho lekarstvi KU [Karlovy university) v Prase.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723020004-3



KLEHER, Vladislav

Biological effects of small doses of ionizing radiation on the human body. Prac. lek. 17 no.6:260-264 Ag 165.

1. Ustav hygieny prace a chorob z povolani v Praze (reditel prof. dr. J. Teisinger, DrSc.).

TRUELLE, Marcel A.; KLENER, Vladislav

Loss of an emitter used in defectoscopic field work. Prac. lek. 17 no.7:322-324 S 165.

l. Krajska hygienicko-epidemiologicka stanice v Ceskych Budejovicich (reditel MUDr. K. lavicky) a Ustav hygieny prace a chorob z povolani v Prase (réditel prof. dr. J. Teisinger, DrSc.).

TUSCANY, Richard; KLEMER, Vladimir; KUDRMA, Jan.

上下了**想。**据表 的是

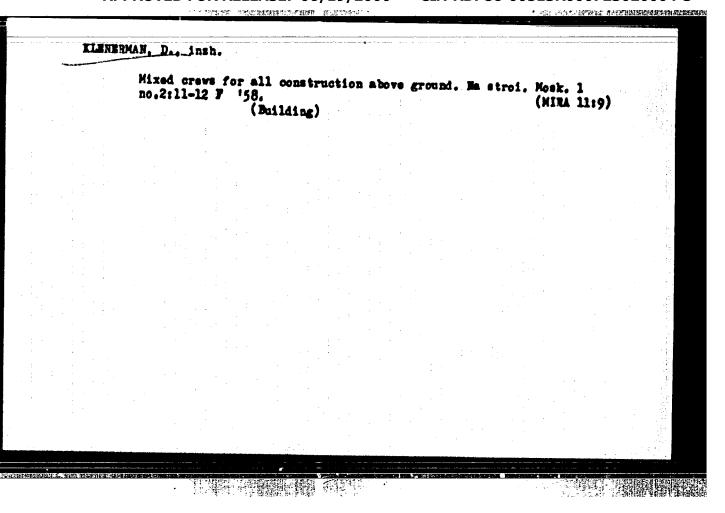
Use of transparent index cards for computing documents in health work and practice. Prac. lek. 16 no.2179-62 Mr. 64

l. Ustav hygieny prace a chorob s povolsni v Prase (reditels prof. dr. J.Teisinger, Dric) a Oideleni hygieny prace HES NV [Hygienicko-epidemiologicka stanice narodni vybor], Praha (vedoucis MUDr. A. Grunvald).

KLENER, Vladislav

Evaluation of occupational laukamia in subjects exposed to ionising radiations. Prac. lek. 16 no.4:170-173 My '64

1. Ustav Hygieny prace a chorob z povolani v Praze (reditel: prof. dr. J. Telsinger, DrSc.).



CHIBOWSKI, Daniel; KLENIEWSKI, Andrzej

A LANGE HERARDHER BURNER - FORESTE

Ichthyosis congenita gravis. Report on two cases. Ann. univ. Lublin sec. D 15.249-261 160.

1. Z Katedry i Zakladu Anatomii Patologicznej Wydzialu Lekarskiego Akademii Medycznej w.Lubinie Kierownik; prof. dr med. Stanislaw Makhburg.

(ICHTHYOSIS in inf & child)

KLENIEWSKI, Josef

The contact factor and fibrinolysis. Acta med. Pol. 6 no.2: 257-276 '65.

1. Department of General and Experimental Pathology, Medical Academy, Bialystok (Director: Prof. Dr. K. Buluk).

·)· 化异比~ 汗空机瓶磨板排除剂桶。 计数字标识 :

BULUK, Karol; BIELAWIEC, Michal; MALOFIEJEM, Michal; KLENIEMEKI, Josef.

Reversible modification of electrophoretic properties of blood proteins activated by urokinase in vitro. Postepy hig, med. dosw. 17 no.61737-741 N-D*63.

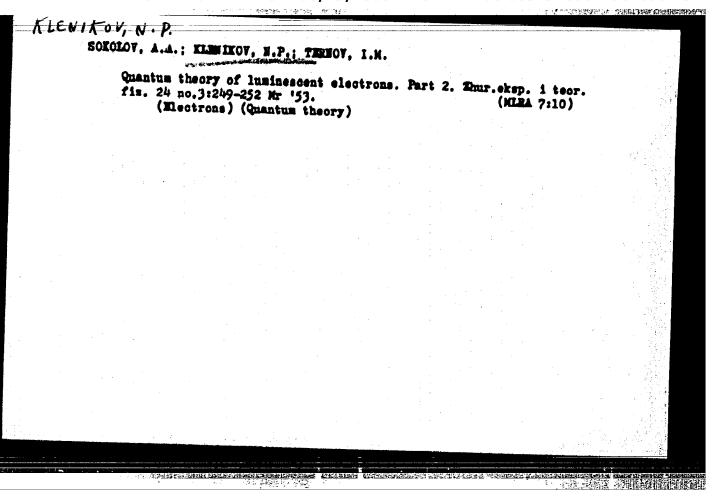
1. Z Zakladu Patologii Ogolnej i Dosviadozalnej AM w Bialymstoku(kierownik: prof.dr.K.Buluk) s I Kliniki Chorob Wewnetrsnych AM w Bialymstoku (kierownik: doc.dr.B.Bogdanikowa).

KLENIK, Ya.S. (s.Slavskoye, L'vovskoy obl.)

。 一种一种介理性的

Formol reaction in Botkin's disease. Vrach. delo no.12:135-136 D '61.
(HEPATITIS, INFECTIOUS) (FORMALDEHYDE)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020004-3



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KLENIN, I.D

DEN TSZIN-CHEHUN [Teng Ching-chang]; TSAO VAN'-ZHU [TS'so Van-ju]; LI
SUM-SHEN [Li Sung-sheng]; KHU SYUY-VAY [Hu Hsd-vei]; SUM' PAN'-SHOU
[Sun P'an-shou]; PAN VZN' [Pan Wên]; LI VZM'-YAN' [Li Wên-yen];
LYAN ZHEN'-TSAY [Liang Jên-ts'si]; LI MU-CHEHEN' [Li Mu-chen];
ZABIROV, B.Sh. [translator]; ZLENIN, I.D. [translator]; SHINYAYAY,
S.L. [translator]; SUM' TSZIN-CHEHI' [Sun Ching-chin], otv.red.;
BERGER, Ya.M., red.; KOSHELEVA, S.M., tekhn.red.; KISELEVA, Z.A.,
red.kart

[Morthern China; economic geography] Severnyi Kitsi; ekonomicheskaia geografiia. Otvetstvennyi red. Sun' TSsin-chshi. Moskva, Gos. isd-ve geogr. lit-ry, 1958. 348 p. [Translated form the Chinese].

(China—Economic conditions)

KLENIN, I. I.

Klenin, I. I. "The modern diagnosis of setariosis in large horned cattle", Sbornik rabot po gel'mintologii (Vsesoyus. in-t gel'mintologii im. akad. Skryabina), Moscow, 1948, p. 115-20.

90: U-3042, 11 Harch 53, (Letopis'nykh Statey, No. 10, 1949).

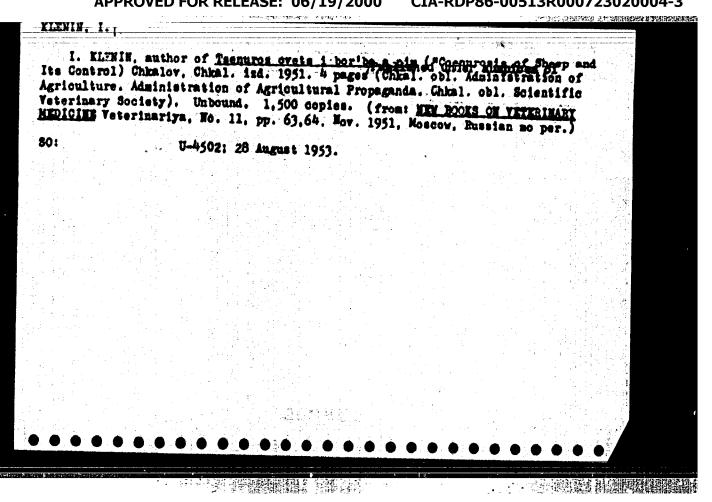
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计算机 的第三人称

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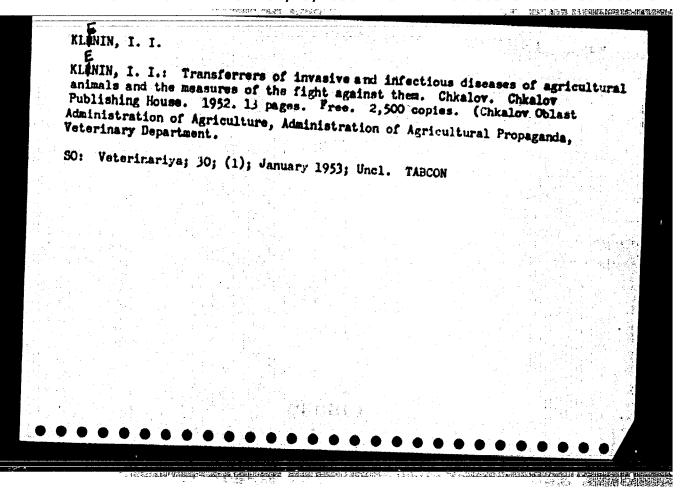
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KLENIN, I. I., Doc Vet Sci (diss) -- "Estrosis of sheep and measures to combat it under the conditions of Orenburg Oblast". Khar'kov, 1959. 28 pp (Min Agric USSR, Khar'kov Vet Inst), 350 copies (KL, No 21, 1959, 118)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020004-3"

PALISHKIN, D.A., inshener, Kiming and inshener.

Correcting densimeter readings, Sel'khosmashina no.4:8 ip '57,

1. Moskovskiy Institut mekhanisatsii i elektrifikatsii sel'skogo khosyaystva.

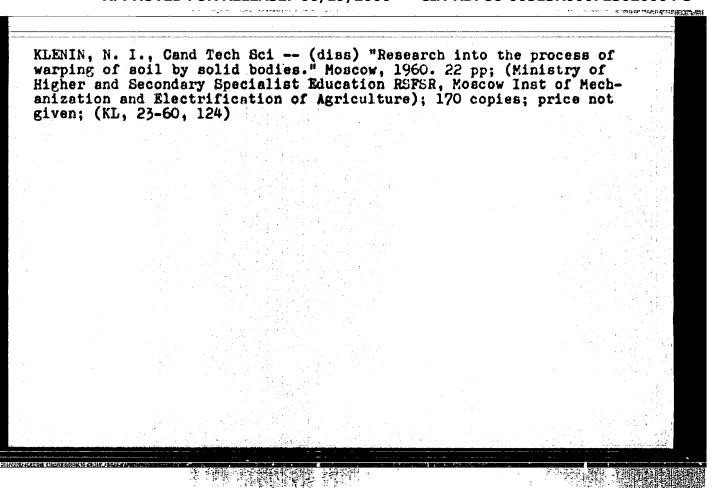
(Soil mechanics)

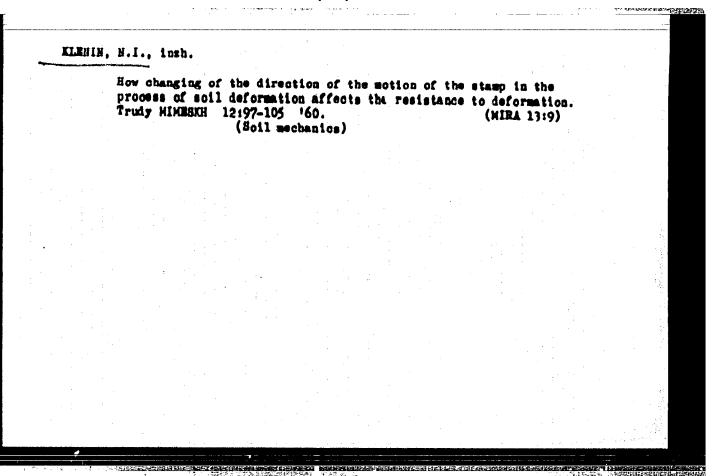
POPOV, I.F., dots.; KLENIN, M.I., insh.

Effect of the mounting of rear wheels of tractor plows on the tractive resistance. Trakt. 1 sel'khozmash. no.2:28 B '59.

(MIEA 12:1)

1. Moskovskiy institut mekhanisatsii i elektrifikatsii sel'skogo khosyaystva im. V.M.Molotova.
(Plows--Testing)





KLENIN, N.I., dots.; POPOV, I.P., dots.; SERGEYEV, A.S., dots.; SOLOV'YEV, V.M., dots.; TIMOPEYEV, A.I., dots.; SIMELEV, B.M., dots.; LETNEV, B.Ya., red.; PEVZNER, V.I., tekhn. red.; DUDAKOV, V.A., tekhn. red.

The state of the s

[Manual on practical exercises with agricultural machines and implements] Praktikum po sel'skokhoziaistvennym mashinam i orudiiam. [By] N.I.Klenin i dr. Moskva, Sel'khozizdat, 1963. 319 p. (MIRA 17:2)

KLENIN, O.I., assistent

The principles of material self-interest and its utilization in wages for track maintenance workers. Trudy MIIT no.166:86-104 162. (MIRA 16:6)

(Wages-Railroads)

KLENIN, S. I.

262T76

* PRODUCTION STATEMENT TO THE PROPERTY OF THE

USSR/Physics - Polystyrene

1 Jan 53

"Diffusion of Fractions of Polystyrene in Dichloroethane," V. M. Tsvetkov and B. I. Klenin, Inst of Eigh Mol Compds, Acad Sci USSR

DAN SSSR, Vol 88, No 1, pp 49-52

Investigate sample of polystyrene obtained by block polymerisation of monomer at temp of 60°. The sample was fractionated and mol wt of fractions computed (see Outer, Carr, Zimm. J. Chem Phys, 18, 830 (1950)). Results showed that radii of spheres hydrodynamically equivalent to mol globule are proportional to square roots of mass of macromol, computed from light scattering. Received 16 Oct 52.

262176

AUTHORS:

Tavetkov, V. N., Klenin, S. I.

57-28-5-18/36

TITLE:

Diffusion and Viscosity of Solutions of Polymethylmetacrylate and of Polyparatertiary Butylphenylmetacrylate (Diffusiya i vyaskost' rastvorov polimetilmetakrilata i poliparatretichnogo butilfenilmetakrilata)

PERIODICAL:

Zhurnal Tekhnichskoy Fiziki, 1958, Vol. 28, Nr 5, pp. 1019-

-1028 (USSR)

ABSTRACT:

The diffusion velocity of polymers in diluted solution represents one of the immediate characteristics of its molecular size. Therefore it is possible to pass a judgement on the structure of its macromolecules from the determination of the diffusion coefficient of thepolymer in the solution. In the present paper the authors applied this method to the comparative examination of the properties of polymethylmetacrylate (PMMA) and of polyparatertiary butylphenylmetacrylate (PBPHMA). These compounds represent polymers with identical chain structure of the basic valence, however, with a different size and structure of the molecular side groups. The dependence of the characteristic viscosities[7] and of the diffusion coefficients D on the molecular weight of the fraction was given for two

Card 1/4

Diffusion and Viscosity of Solutions of Polymethylmetacrylate 57-28-5-18/36 and of Polyparatertiary Butylphenylmetacrylate

investigated polymers in a logarithmic scale (figures 9 and 10). These points coincide with the straight lines corresponding to the following functions. For PMMA in chloroform holds: $[7] = 5 \cdot 1 \cdot 10^{-5} \cdot \text{M}^{0.79}$ D = $4 \cdot 5 \cdot 10^{-4}$ M^{-0.60}

and for PBPHMA in chloroform

= 2.4.1=5 M^{0.78} D = 6.0.10-4 M-0.60

As is known, a universal interrelation exists between the diffusion coefficient D and the characteristic viscosity of the polymer fraction in the corresponding solvent, (Refs 8 and 9). If the hydrodynamical properties of the molecular tangle in the solution is described by means of equivalent, semi-transparent spheres, as it is done in the theory by Debye-Bueche (Ref 13), the ratio between the hydrodynamical molecular radius from the viscosity Re and the radius from diffusion RD is Ref. 50.1/360 pc/s/615 pc/s/6

diffusion R_D is $\frac{R_q}{R_D} = \frac{6\pi}{k} (\frac{30}{\pi N})^{1/3} \{ \gamma_0 D(M[q])^{A_3} T^{-1} \}^{\frac{1}{2}} (\sigma) (\frac{2.5}{\varphi(\sigma)})^{\frac{1}{2}}$

Card 2/4

Hence, the quantity A = 70 DT 1 (M[7]) differs from the ratio

Diffusion and Viscosity of Solutions of Polymethylmetacrylate 57-28-5-18/36 and of Polyparatertiary Butylphenylmetacrylate

only by the numerical multiplicand. The theory by Flori shows analoguous results (Ref 14). Experiments show that the quantity A proportional to the ratio Rq/R_D represents a universal constant, its most probable value being A-3.44.10-10 . The proportion of the viscosity- andhydrodynamic diffusfondradii permits to immediately obtain the interrelation between the |-- | size of the macromolecules and the diffusion coefficient. Summary: In this paper a device for the measurement of the diffusion coefficient in solutions is described. It is based upon the application of the polarisation interferometer! The diffusion and the viscosity of the solutions of polymethylmetacrylate and of polybutylphenylmetacrylate in the wide interval of the molecular balance was investigated. A simple relation was obtained, which permits to determine themise of the macromolecules in the solution according to the measured diffusion coefficients. The experimental results permit to conclude that rotation in the chains of polybutylphenylmetacrylate is more impeded than is the case in the chains of polymethylmetacrylate. There are 13 figures, 3 tables, and 14 references, to of which are Soviet.

Card 3/4

Diffusion and Viscosity of Solutions of Polymethylmetacrylate 57-28-5-18/36 and of Polyparatertiary Butylphenylmetacrylate.

ASSOCIATION:

Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad

(Leningrad, Institute for High-Molecular Compounds, AS USSR)

SUBMITTED:

July 23, 1957

1. Polymers--Diffusion 2. Polymers--Viscosity

Card 4/4

KLENIN, S. I.

Cand Phys-Math Sci, Diss -- "Investigation of diffusion of polymer solutions by the polarisation interferometry method". Leningrad, 1961. 17 pp, 20 cm (Leningrad Order of Lenin State U imeni A. A. Zhdanov), 180 copies, Not for sale, list of works by the author on pp 16-17 (KL, No 9, 1961, p 175, No 24250). _61-558717

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020004-3"

KLENIN, S.I.; PTITSIN, O.B.

Interpretation of experimental data on the translational friction of flexible macromolecules in good solvents. Vysokom.soed. 3 no.6:912-918 Je 161. (MIRA 14:6)

1. Institut vysokomolekulymrnykh soyedineniy AN SSSR. (Macromolecular compounds)

Sysological conformation and hydrodynamic and mechanical properties of 4:5 styrene - isoprene bulk copplyare

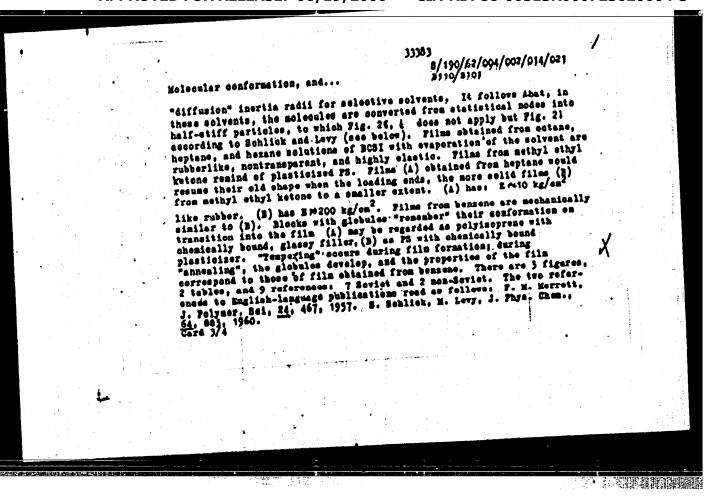
PERIODICAL: Ypokomelekulyarayye coyedineniya, v. 4, no. 2, 1962, 250-255

TIII: Roleaning and hydrodynamic and mechanical properties of 4:5 styrene - isoprene bulk copplyare

PERIODICAL: Ypokomelekulyarayye coyedineniya, v. 4, no. 2, 1962, 250-255

TIII: The authors estudied the hydrodynamic and mechanical properties of hybrid polyaers on the basis of the celective sclubility of one type of blocks in the corresponding colvent to make a quantitative estimate of the conformation changes of mecrosciculus despondent in the celevari, and to measure the mechanical properties of the reculting films. They investigated 4:15 styrene - isoprene bulk copolyner (REI) and citic butyl lithium and consisting of four polystyrene (RB) and fire polystoprene (FI) blocks. The melecular veight determined in methyl cityl technomous M. - 77,000, that of Ms. Medio,000, that of FI: M. M. 7500. Solvents und were beneaus, telume, heptane celone, and another cityl technomous. O.1 am thick films were obtained from 1 g/100 all of colutions in heptane Card 1/4

33383 8/190/62/004/002/014/021 Molecular conformation, and ... 3110/3101 and methyl ethyl ketene on Mg surface at 25°C and 20 mm Mg. The diffusion coefficients were determined at 0.05% concentration by a Tavetkey diffusometer. The sedimentation coefficients were determined by a Svedberg ultracentrifuge. The molecular weight was calculated according to Svedberg: $N = (S_0 N^2)/[D(1-V_0)]$ (2), and Flory and Mandel'kern, 2.5·10⁶ = $[V_0 N/(1-V_0)][S([V_0]/N^2)^{1/2}]$ (5), where N = Avogadro's number; q - density, and n - viscosity of the solvent. (3) presupposes conforma-tion of statistical nodes of macronolecules, the linear dimensions being proportional to M1/2+E (s - emall parameter). The coincidence of different mean weights in different solvents indicates weak polydispensiy. The absence of a relation between K, and Kin and the mean hydrodynamic weights \mathbf{M}_{aq} and \mathbf{M}_{Dq} demonstrates the unsuitability of the medel of statistical nodes. The PI blocks keep the octane-insoluble PS blocks in solution. Therefore, they form small pearls threaded on the polviseprene string. In methyl ethyl ketone, it is vice versa. Flory's theory does not apply to this case. There is no relationship between "viscous" and Car4 2/4



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33363 Molecular conformation, and 3/190/62/004/002/0 3110/3101	014/021	14 [1]
ASSOCIATION: Inetitut vysokomolekulyarnykh soyedineniy AN SS32 (Inetitute of High Molecular Compounds AS UNSE)		5.
SUBMITTED: February 10, 1961	1	
Fig. 2. Diagram of the conformation of BCSI molecules in various solvents.	, X	
Legend; (a) Bensene (good solvent for both types of blooks); (6) methyl ethyl ketone; (1) structure to be suggested in solect solvents ("unsoluble" blooks agregated); C = etyrene blooks; N) octane; tive - isoprem	
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5.4100 17.6020 AUTHORS:

3/190/62/004/004/010/019 B117/B138

Tsvetkov, V. N., Klenin, S. I., Prenkel', S. Ya., Pomicheva, O. V., Zhuze, A. G.

Hydrodynamic properties of poly-p-vinyl naphthalene macro-TITLE:

molecules in benzene

Vysokomolekulyarnyye soyedineniya, v. 4, no. 4, 1962, 540-545 PERIODICAL:

TEXT: Diffusion constants, sedimentation coefficients and intrinsic viscosity of 10 fractions of poly-β-vingl naphthalene (P-β-VN) in benzene were studied. The Mark - Kuhn - Houwink relations in this solvent were found to have the form $D = 3.5 \cdot 10^{-4} \cdot M_{S,D}^{-0.57}$ for the diffusion coefficient, for the intrinsic viscosity. The molecular weight MS.D was determined from Swedberge equation. The hydrodynamic behavior of P-|-VN, which is determined by viscosity and diffusion, is completely normal and confirms the universal character of the empirical constant It's mean value was (3.1 + 0.1) 10 -10 erg/degree. $A = \eta_0 D(M[\eta])^{1/3}T^{-1}$ Card 1/3

5/190/62/004/004/010/019 B117/B138

5

Hydrodynamic properties of ...

corresponded to the value of this constant determined for other polymers and again confirmed the usual correlation of hydrodynamic properties of P-p-VB during translation and rotation. The estimate of the relation between dimensions of P-B-VN molecules in bensene and their dimensions during free , which characterises the hardness of the molecular structure, made by means of the previously determined swelling parameter (Ref. 9: V. Ye. Eskin, K. Z. Korotkina, Vysokomolek. soyed., 2, 272, 1960) = $([\eta]/[\eta]_0)$ = 1.2, produced a mean value of 2.6. are undisturbed dimensions of the macromolecule). This amount, which slightly, exceeds the corresponding values for most of the linear polymers, showed (e. g. in comparison with polystyrene) that the substitution of the bensene ring by naphthalene increases the thermodynamic hardness of the macromolecule. It was found that the dependence of the diffusion coefficient D on the concentration of one of the P-3-VM fractions with M = $3.5 \cdot 10^6$ is . only slight in CCL, and more marked in bensene. This confirms that the dependence on the concentration is mainly determined by the thermodynamic interaction between polymer and solvent. (Ref. 13: V. H. Tavetkov, S. I. Card 2/3

以267 第/190/63/005/001/001/020 第101/第186

15.8100

AUTHORS:

Tavetkov, V. N., Magarik, S. Ya., Klenin, S. I., Eskin, V. Ye.

TITLE:

Synthesis of graft copolymers. II. Dimensions, configuration, and optical properties of the macromolecules of the graft

methyl methacrylate - styrene copolymer

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 1, 1963, 3 - 10

TEXT: Polystyrene of molecular weight $\approx 2 \cdot 10^3$ was grafted on polymethyl methacrylate, molecular weight $7 \cdot 10^4$. Refractometric examination of the copolymer composition showed the molar part of polystyrene to be 0.9. The average-weight molecular weight of $\approx (0.5 - 0.6) \cdot 10^6$ was determined by light scattering. Analysis of the diffusion curve proved the content of the low-molecular components to be no more than 5-10%. The optical anisotropy of the copolymer was determined by flow birefringence in bromoform. According to W. Kuhn and H. Kuhn. (Helv. chim. acta, 26, 1394, 1943; 28, 1553, 1945), 870 \cdot 10^{-25} cm³ is found for the difference $(\alpha_1 - \alpha_2)$ in main Card 1/2

S/190/63/005/001/001/020 B101/B186

polarization capacities of one macromolecular segment of the copolymer; for polymethyl methacrylate, this value is $(2-20)\cdot 10^{-25} {\rm cm}^3$, and for polystyrene it is $-(140-200)\cdot 10^{-25} {\rm cm}^3$. Based on Kuhn's theory, the theoretical calculation of the anisotropy of one segment of the principal methyl methacrylate chain with short graft polystyrene chains, proved that $(\alpha_1-\alpha_2)$ is $+220\cdot 10^{-25} {\rm cm}^3$, when the polystyrene polymerization coefficient is 40 and when the molar part of polystyrene is 0.9. The experimental value, which is four times as high, is explained by the fact that the chain stiffness of the graft copolymer is higher than that of homopolymers. Conclusion: The optical anisotropy of a branched polymer may differ considerably from the anisotropy of its components. There are 5 figures and 1 table.

II.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy AN SSSR

3.6.X编制(3.4.8)

(Institute of High-molecular Compounds AS USSR)

SUBMITTED: July 1, 1961

Synthesis of graft copolymers.

Card 2/2

非型型的基础的

TSVETKOV, V.N.; KLENIN, S.I.; MAGARIK, S.Ya.

Optical anisotropy of polymethyl methacrylate - polystyrene graft copolymers. Vysokom. soed 6 no.3:400-405 Mr. 64.

(MIRA 17:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

L 20784-65 FWT(m)/EPP(c)/SWP(j) Fc-4/Pr-4 AFWL/ARDC(a)/ASD(f)-3/ASD(p)-3/AFETR RM
ACCESSION NR: AP5003798 3/0190/64/006/008/1420/1425

AUTHOR: Frenkel', 8. Ya.; Klenin, S. I.

TITLE: Hydrodynamic properties of polycarbethoxyphenylaethacrylamides. III

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 6, no. 8, 1964, 1420-1425

TOPIC TAUS: macromolecular chemistry, hydrodynamics, amide

ABSTRACT: Previous investigations of one of the authors /Frenkel'/
revealed anomalies in the hydrodynamic behavior of p-polycarbethoxyphenylmethacrylamide in such solvents as ethyl acetate and methylformamide,
which were explained at that time by the development of structural rigidity
in the macromolecules of this compound, giving rise to the possibility of
the formation of intrachain hydrogen bonds between the suide groups or
amide hydrogen and the carbonyl uxygen of the carbethoxy group. In the
light of later studies indicating the impossibility of the formation of
helical macromolecules, a new study was made of this compound, using four
different methods: sedimentation, diffusion, viscosimetry, and light
scattering. Heasurements of the sedimentation, diffusion, and intrinsic
viscosity in diemthylformamide and athyl acetate confirmed the anomaly of,
Card 1/3

L 20784-65

ACCESSION NR: AP5003798

the hydrodynamic properties of p-polycarbethoxyphenylmethacrylamide in these solvents, manifested in deviations from the classical ratios between the hydrodynamic characteristics and the molecular weight. The authors explain the anomaly by a progressive increase in the structural regidity of the macromolecules with increasing molecular weight above a certain critical value M (of the order of 106), as a result of the formation of a system of intrachain hydrogen bonds, producing a semirigid model with internal loops and macrocycles. Consecutive addition of completed external macrocycles is manifested in the tendency toward increasing asymmetry of the coils with increasing molecular weight. Below the critical molecular weight, corresponding to incomplete macrocyclic configurations, pronounced polydispersion of the shape is manifested, leading to a discrepancy between the average molecular weights determined by different methods, while above the critical value, asymmetric configurations predominate, with a corresponding anomalous; increase in the hydrodynamic interactions. In "active" solvents, competing ! with the polymer for hydrogen bonds, or in o-polycarbethoxyphenylmethacrylamide, where there are no intrachain hydrogen bonds, the anomaly of the hydrodyn le properties disappears. The results of this study are compared with the data of other authors, and the discrepancies are shown to be only apparent. Orig. art. has: 3 formulas, 3 graphs, 1 table.

Card 2/3

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020004-3

L 2078L-65

ACCESSION NR: AP5003798

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy AN SSSR (Institute of High-Molecular Compounds, AN SSSR)

SUBMITTED: 16Sep63 ENCL: 00 SUB CODB: 00, ME

NO REF SOV: 009 OTHER 1 003 JPRS

Card 3/3

FRENKEL!, S.Ya.; KLENIN, S.I.

Hydrodynamic properties of polycarbeth: xyphenylmethacrylamides. Part 3. Vysokom.soed. 6 no.8:1420-1425 Ag 104. (MIRA 17:10)

1. Institut vysokomolekulsyrnykh soyedineniy AN SSSR.